AMENDMENT OF SOLICITAT		1. CONTRA	ACT ID CODE	PAGE OF PA	AGES		
AMENDMENT OF SOLICITAL	HON/MODIFICAL	ION OF CONTRACT			J	1	3
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE	NO. 5. PROJECT NO.(If applica			le)	
0006	19-Jun-2002	W16ROE-2114-9734					
6. ISSUED BY CODE	E DACA51	7. ADMINISTERED BY (If o	ther th	an item 6) COD	Ξ	
USA ENGINEER DISTRICT, NEW YORK ATTN: CENAN-CT ROOM 1843 26 FEDERAL PLAZA (DACA51) NEW YORK NY 10278-0090		See Item 6					
8. NAME AND ADDRESS OF CONTRACTOR (No	X 9A. AMENDMENT OF SOLICITATION NO. DACA51-02-B-0008						
				B. DATED I-May-200) (SEE ITEN)2	I 11)	
	10A. MOD. OF CONTRACT/ORDER NO.						
CODE	10B. DATED (SEE ITEM 13)						
11. TH	FACILITY CODE S ITEM ONLY APPLIE	S TO AMENDMENTS OF SOLIC	CITAT	IONS			
X The above numbered solicitation is amended as set forth in	tem 14. The hour and date spe	cified for receipt of Offer	is e	xtended,	X is not 6	xtended.	
Offer must acknowledge receipt of this amendment prior t (a) By completing Items 8 and 15, and returning	copies of the amendment; (b) Beence to the solicitation and an RECEIPT OF OFFERS PRIOR lment you desire to change an cicitation and this amendment,	y acknowledging receipt of this amendme endment numbers. FAILURE OF YOUR TO THE HOUR AND DATE SPECIFIEI ffer already submitted, such change may b	ent on each ACKNO D MAY be made	ch copy of the OWLEDGM RESULT IN	he offer submit IENT TO BE N	ed;	
12. ACCOUNTING AND APPROPRIATION DATA	(If required)						
		DIFICATIONS OF CONTRACTS/ DER NO. AS DESCRIBED IN ITE		ERS.			
A.THIS CHANGE ORDER IS ISSUED PURSUA CONTRACT ORDER NO. IN ITEM 10A.	NT TO: (Specify author	ity) THE CHANGES SET FORTH	I IN IT	EM 14 Al	RE MADE II	N THE	
B.THE ABOVE NUMBERED CONTRACT/ORD office, appropriation date, etc.) SET FORTH					ich as chang	es in paying	
C.THIS SUPPLEMENTAL AGREEMENT IS EN	NTERED INTO PURSUA	NT TO AUTHORITY OF:					
D.OTHER (Specify type of modification and aut	hority)						
E. IMPORTANT: Contractor is not,	is required to sign this	document and return	copies	to the iss	uing office.		
14. DESCRIPTION OF AMENDMENT/MODIFICA where feasible.) The purpose of Amendment 0006 is to clarify cor 1204 & 1205, Fort Monmouth, Eatontown, NewJ	ntractor questions, "Geo						
NOTE: Bidders must acknowledge receipt of this methods: In the space provided on the SF 1442, AMENDMENTS BY THE TIME SPECIFIED MAY RE OF BIDS OR LATE WITHDRAWAL OF BIDS (FAR	by separate letter, or by SULT IN REJECTION OF	telegram, or by signing Block 15	below.	. FAILUR	E TO ACKN	OWLEDGE	
The Bid Opening Date remains unchanged, 25 Ju	ne 2002.						
Except as provided herein, all terms and conditions of the docum	ent referenced in Item 9A or 1	A. as heretofore changed remains uncha	nged and	d in full forc	e and effect		
15A. NAME AND TITLE OF SIGNER (Type or pr		6A. NAME AND TITLE OF CO					
15B. CONTRACTOR/OFFEROR 1	5C. DATE SIGNED	6B. UNITED STATES OF AMER	RICA			16C. DATE SIGN	ĮED
(Signature of parson outborized to size)	-	(Signature of Contracting Of	figor)			19-Jun-2002	
(Signature of person authorized to sign)		(Signature of Contracting Off	ncer)				

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

AMENDMENT NO. 6
GEOTHERMAL WELL FIELDS
REVITALIZE BARRACKS
USMA PREPARATORY SCHOOL BLGS 1204 AND 1205
June 18, 2002
U. S. ARMY CORPS OF ENGINEERS
NEW YORK DISTRICT
DACA51-02-B-0008

General Notes:

The General Contractor (building contractor) shall excavate the area within the MER room and the area directly under the loading dock concrete slab. All other excavation to be performed by GT contractor, General Contractor (building contractor) shall perform cutting and patching. GT contractor to mark out all areas, sleeves, etc and coordinate with GC.

Where possible all trees should remain and be protected and preserved. If a tree has to be removed to accommodate new GT piping then it shall be removed by the GT contractor or his subcontractor.

SPECIFICATIONS

Section 00800 Paragraph 17 Add following to paragraph a).

Contractor shall be provided with water from one fire hydrant selected by the Fort. This hydrant shall serve as a water source for the duration of the contract. A meter supplied and installed by the GT contractor, at his own cost, shall meter the water. (Fort Monmouth shall approve the type of meter) Cost of water shall be reimbursed to the Fort on a monthly basis. Approval shall be obtained from the Fort's fire department through submittal process of required appurtenance. GT contractor to truck water around site if required.

Specification Par 15741-2.7.2 shall be modified to read:

The K value of the grouting compound shall be K = 0.88 btw /hr/ ft/ °F.

Specification 15741 section 3.4

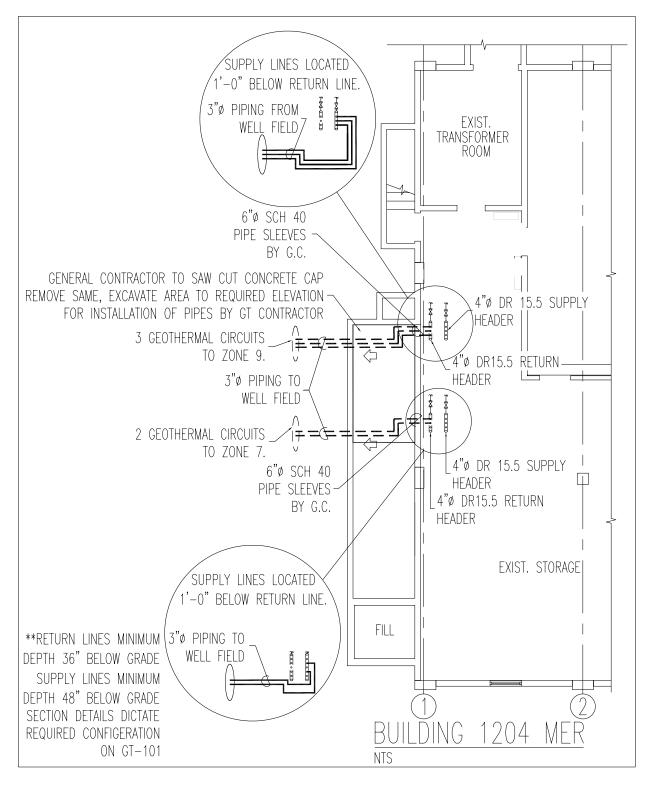
Add the following paragraph after paragraph (a)

Where two GT pipes (S&R) are required serving a common well system, it is acceptable for both pipes to be installed 48" below grade in lieu of the supply being installed 48" below grade and the return being installed 36" below grade. It is preferable that GT pipes be installed 48" below grade but this detail may impact excavated trench width. No extras will be considered if GT contractor opts to lay all pipes at 48" below grade for expedient excavation looping and back filling reasons.

Sketches

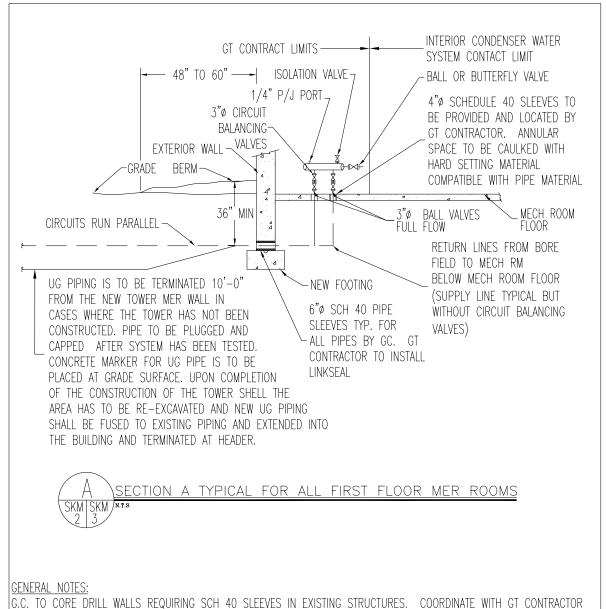
Attached (SK-1, SK-2and SK-3) three sketches for coordination of GT piping entering building with the Barracks General Contractor.

SK-4 is the boring log for existing GT Test Well # 5. Test well #5 is 300ft deep and utilized 1-1/4" dia GT U-bend test bore, results are not available for review.



DETAILS APPLICABLE FOR MECHANICAL ROOMS: MER 113, BUILDING 1204 - 1 SET-3" S & R CIRCUITS MER 114, BUILDING 1204 - 1 SET-3" S & R CIRCUITS MER 112, BUILDING 1205 - 1 SET-3" S & R CIRCUITS MER 114. BUILDING 1205 - 1 SET-3"ø S & R CIRCUITS MER 123, BUILDING 1205 - 2 SET-3" S & R CIRCUITS MER 126, BUILDING 1205 - 2 SET-3" S & R CIRCUITS MAIN MER BUILDING 1204 - 5 SET-3" S & R CIRCUITS GT CONTRACTOR TO CO-ORDINATE WORK WITH GENERAL CONTRACTOR BERM TO MAINTAIN .36" SOIL COVER INTERIOR CONDENSER WATER GT CONTRACT LIMITS SYSTEM CONTACT LIMIT 4"ø SUPPLY HEADER PIPE L-1/4" P/T PORT/ 6"ø SCH 40 PIPE I BALL OR BUTTERFLY SLEEVES TYP. FOR-ISOLATION VALVE ALL PIPES BY GC PORT, FULL-SIZE OR MANIFOLD WITH FLANGE CONN. 2" SUPPLY - RETURN – VERTICAL RISERS ~TO FXPAND TO MATCH NO. OF CIRCUITS AS REQUIRED. 3"Ø BALL VALVE FULL 4"ø RETURN FLOW & 3" CIRCUIT A HEADER PIPE BALANCING VALVE WITH 1/4" PORT

TYPICAL PLAN VIEW FOR ALL FIRST FLOOR TOWER MER ROOMS



G.C. TO CORE DRILL WALLS REQUIRING SCH 40 SLEEVES IN EXISTING STRUCTURES. COORDINATE WITH GT CONTRACTOR FOR INVERT LEVELS. IN NEW TOWERS, SLEEVES TO BE CAST AT INVERT LEVELS PROVIDED IN GT SUBMITTALS (TYPICALLY 48" FROM GRADE TO C OF SLEEVE.) IN ALL CASES UPON COMPLETION OF GT PIPING GC TO BACK FILL AREA WITH BANK RUN GRAVEL, COMPACT USING MECHANICAL VIBRATOR, PROVIDE 6" O.C. x 6" O.C. OPEN MESH WITHIN CONCRETE SLAB. AREA TO BE PATCHED WITH 3500PSI CONCRETE INSTALLED LEVEL AND SMOOTH COORDINATE ELEVATION OF PIPES GOING THRU WALLS WITH GT CONTRACTOR.

 \bigcirc 1/M =

GEOSYSTEMS, INC.

410/789-5020 410/789-5029 FAX

RECORD OF SOIL EXPLORATION

CONTRACTED WITH DTGDTON and Chow						BORING # 1657 LOOP						
PROJECT NAME Ft. Monmouth Bldg 1204+1205 JOB # 01-045												
	LOCATION	Tinton =	Falls	<i>Dei</i>	77	evs	ey		t.			
	Oatum		Hammer Wt.			MPLE				Enra	man C. Lawyer	
	Surf. Elev.	Ft.	Hammer Drop Pipe Size	710	L.bs. in.	Hole	~ · · · · · · · · · · · · · · · · · · ·	70		Inspe	ector	
	Date Started_	6-6-01		7 77	in.	Borin	g Method Mac		T01/	Date	Completed 6-7-01	
	ELEV.	SOIL DESCRI Color, Moisture, Density, Plasti		STRATA DEPTH		Cond.	SAMF Blows/6"	No.	Туре	Rec.	BORING & SAMPLING NOTES	
_	,	Brown Tine	1100		_						Installed	
_	(Coarse Same trace of ck Silt	Q w/		_						1.25 inch	•
-		trace of ck	ry and								11.	_
_				540	50						Geo-Loop	_
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		gravel			100-						a	_
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_					150]			w/Thermal	1000°\.
-				178.0						}	Enhanced	-
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-		rive Sand	y Silt									
		Bray Layer Fine Sand and Clayer	ey Silt						1			_
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1					390							
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4												_
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		305	F-t.									-
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	SAMPLER T	YPE	SAMPLE COND	ITIONS		GROI	IND WATER DEF	<u>I. </u>	·	i	SORING METHOD	
	DS - DRIVEN PT - PRESSE	SPLIT SPOON D SHELBY TUBE	D - DISINTEGRAT	ED		AT CO	MPLETION		F		HSA - HOLLOW STEM AUGERS	15
	RC - ROCK C	UOUS FLIGHT AUGER ORE	U - UNDISTURBE L - LOST	D	•			HRS	F		DC DRIVING CASING MID MID DE LING TOTAL P.02	